

This listing of claims replaces all prior versions, and listings, of claims in the present application.

**Listing of Claims:**

Claims 1-35 canceled.

36. (New) A method of operating a regulator circuit for a voltage pump, said method comprising:

generating a reference voltage from a first voltage;

determining an operating mode of the circuit; and

applying one of a plurality of adjustment circuits to a circuit generating the reference voltage to generate an adjusted reference voltage if the determined operating mode requires the reference voltage to be adjusted.

37. (New) The method of claim 36, wherein said applying step comprises switching out at least one resistive element used to generate the reference voltage.

38. (New) The method of claim 36, wherein said applying step comprises switching out a plurality of resistive elements used to generate the reference voltage.

39. (New) The method of claim 36, wherein the determined operating mode is a nominal operating mode.

40. (New) The method of claim 36, wherein the determined operating mode is a burn-in operating mode.

41. (New) The method of claim 36, wherein the determined operating mode is a power-up operating mode.

42. (New) The method of claim 36, wherein said applying step comprises:

modifying the applied one of the plurality of adjustment circuits based on the determined operating mode; and

applying the modified adjustment circuit to at least one resistive element used to generate the reference voltage.

43. (New) The method of claim 36, wherein said generating step comprises applying the first voltage to a voltage divider.

44. (New) The method of claim 43, wherein said applying step comprises switching out at least one resistive element from the voltage divider.

45. (New) The method of claim 43, wherein said applying step comprises switching out a plurality of resistive elements from the voltage divider.

46. (New) The method of claim 36 further comprising the step of applying a second one of the plurality of adjustment circuits to the circuit generating the adjusted reference voltage to generate a second adjusted reference voltage if the determined operating mode requires the adjusted reference voltage to be adjusted.

47. (New) The method of claim 36, further comprising the steps of:

determining a level of the adjusted reference voltage;

comparing the determined level to a predetermined level; and

turning on the pump if it is determined that the determined level is below the predetermined level.

48. (New) The method of claim 36, further comprising the steps of:

determining a level of the adjusted reference voltage;

comparing the determined level to a predetermined level; and

turning off the pump if it is determined that the determined level is above the predetermined level.

49. (New) A method of operating a regulator circuit for a voltage pump, said method comprising:

applying a first voltage to a resistive circuit to generate a reference voltage;

determining an operating mode of the circuit; and

applying a plurality of adjustment circuits to the resistive circuit to generate an adjusted reference voltage if the determined operating mode requires the reference voltage to be adjusted.

50. (New) The method of claim 49, wherein said applying step comprises switching out a plurality of resistive elements from the resistive circuit.

51. (New) The method of claim 49, wherein the determined operating mode is a nominal operating mode.

52. (New) The method of claim 49, wherein the determined operating mode is a burn-in operating mode.

53. (New) The method of claim 49, wherein the determined operating mode is a power-up operating mode.

54. (New) The method of claim 49, wherein said applying step comprises:

modifying at least one of the plurality of adjustment circuits based on the determined operating mode; and

applying the modified adjustment circuit and the other of the adjustment circuits to resistive elements within the resistive circuit.

55. (New) The method of claim 49, wherein said generating step comprises applying the first voltage to a voltage divider.

56. (New) The method of claim 55, wherein said applying step comprises using the adjustment circuits to switch out a plurality of resistive elements from the voltage divider.

57. (New) The method of claim 49, further comprising the steps of:

determining a level of the adjusted reference voltage;

comparing the determined level to a predetermined level; and

turning on the pump if it is determined that the determined level is below the predetermined level.

58. (New) The method of claim 49, further comprising the steps of:

determining a level of the adjusted reference voltage;

comparing the determined level to a predetermined level; and

turning off the pump if it is determined that the determined level is above the predetermined level.

59. (New) A method of operating a memory circuit, said method comprising

the steps of:

generating a pumped voltage;

applying the pumped voltage to the memory circuit; and

regulating the pumped voltage, said regulating step comprising:

generating a reference voltage from the pumped voltage,

determining an operating mode of the circuit, and

applying one of a plurality of adjustment circuits to a circuit

generating the reference voltage to generate an adjusted reference voltage if the determined operating mode requires the reference voltage to be adjusted.

60. (New) The method of claim 59, wherein said applying step comprises switching out at least one resistive element used to generate the reference voltage.

61. (New) The method of claim 59, wherein said applying step comprises switching out a plurality of resistive elements used to generate the reference voltage.

62. (New) The method of claim 59, wherein the determined operating mode is a nominal operating mode.

63. (New) The method of claim 59, wherein the determined operating mode is a burn-in operating mode.

64. (New) The method of claim 59, wherein the determined operating mode is a power-up operating mode.

65. (New) The method of claim 59, wherein said applying step comprises:

modifying the applied one of the plurality of adjustment circuits based on the determined operating mode; and

applying the modified adjustment circuit to at least one resistive element used to generate the reference voltage.

66. (New) The method of claim 59 further comprising the step of applying a second one of the plurality of adjustment circuits to the circuit generating the adjusted reference voltage to generate a second adjusted reference voltage if the determined operating mode requires the adjusted reference voltage to be adjusted.

67. (New) The method of claim 59, further comprising the steps of:

determining a level of the adjusted reference voltage;

comparing the determined level to a predetermined level; and

turning on the pump if it is determined that the determined level is below the predetermined level.

68. (New) The method of claim 59, further comprising the steps of:

determining a level of the adjusted reference voltage;

comparing the determined level to a predetermined level; and

turning off the pump if it is determined that the determined level is above the predetermined level.

69. (New) A method of operating a memory circuit, said method comprising the steps of:

generating a pumped voltage;

applying the pumped voltage to the memory circuit; and

regulating the pumped voltage, said regulating step comprising:

applying a first voltage to a resistive circuit to generate a reference voltage;

determining an operating mode of the circuit; and

applying a plurality of adjustment circuits to the resistive circuit to generate an adjusted reference voltage if the determined operating mode requires the reference voltage to be adjusted.

70. (New) The method of claim 69, wherein said applying step comprises switching out a plurality of resistive elements from the resistive circuit.

71. (New) The method of claim 69, wherein the determined operating mode is a nominal operating mode.

72. (New) The method of claim 69, wherein the determined operating mode is a burn-in operating mode.

73. (New) The method of claim 69, wherein the determined operating mode is a power-up operating mode.

74. (New) The method of claim 69, wherein said applying step comprises:  
modifying at least one of the plurality of adjustment circuits based on the determined operating mode; and

applying the modified adjustment circuit and the other of the adjustment circuits to resistive elements within the resistive circuit.

75. (New) The method of claim 69, wherein said generating step comprises applying the first voltage to a voltage divider.

76. (New) The method of claim 75, wherein said applying step comprises using the adjustment circuits to switch out a plurality of resistive elements from the voltage divider.

77. (New) The method of claim 69, further comprising the steps of:

determining a level of the adjusted reference voltage;

comparing the determined level to a predetermined level; and

turning on the pump if it is determined that the determined level is below the predetermined level.

78. (New) The method of claim 69, further comprising the steps of:

determining a level of the adjusted reference voltage;

comparing the determined level to a predetermined level; and

turning off the pump if it is determined that the determined level is above the predetermined level.